What is claimed is:

## 1. A method comprising:

supplying successive sections of an input line of a digital image to different imaging beams along a fast scanning direction defined by a vertical resolution,

supplying each of a plurality of imaging beams with a respective data sequence comprising sections of successive input lines of a digital image, said successive input lines being exposed along a slow scanning direction defined by a horizontal resolution, and

imaging at least one exposure line with a variable resolution along said fast scanning direction,

wherein the size of said sections is determined by said variable resolution.

- 2. The method of claim 1, further comprising altering the data sequence of at least one active imaging beam when the number of active imaging beams is varied.
- 3. The method of claim 1, further comprising seamlessly attaching the tail of a section of an input line with the head of the next section of said input line.
- 4. The method of claim 1, further comprising seamlessly attaching the tail of a section of an input line with the head of a section of the following input line.

## 5. A method comprising:

supplying each of a plurality of imaging beams with a respective data sequence comprising sections of successive input lines of a digital image so that the image generated by said plurality of imaging beams has desired geometrical properties, wherein said desired geometrical properties include having image edges parallel to a given line orientation, and

imaging successive lines of at least one exposure along a first scanning direction, each line of said exposure having a variable resolution along a second scanning direction that differs from said first scanning direction.

wherein the size of said sections is determined by said variable resolution.

- 6. The method of claim 5, wherein said desired geometrical properties include having image edges parallel to a gripper line of a plate holding system.
- 7. The method of claim 5, wherein said desired geometrical properties include having image edges parallel to a gripper line of a paper holding system.
- 8. A method comprising:

supplying each of a plurality of marking elements with a respective data sequence comprising sections of successive input lines of a digital image along a first scanning direction, and

recording at least one exposure with a variable resolution along a second scanning direction, said second scanning direction being different than said first scanning direction,

wherein the size of said sections is determined by said variable resolution.

- 9. The method of claim 8, further comprising altering the data sequence of at least one active marking element when the number of active marking elements is varied.
- 10. The method of claim 8, further comprising seamlessly attaching the tail of a section of an input line with the head of the next section of said input line

11. The method of claim 8, further comprising seamlessly attaching the tail of a section of a particular input line with the head of another section of the following input line.

## 12. A method comprising

supplying each of a plurality of marking elements with a respective data sequence comprising sections of successive input lines of a digital image so that the image generated by said plurality of marking elements has desired geometrical properties, said successive input lines being arranged along a first scanning direction, and

marking with a variable resolution along a second scanning direction, which determines the size of each of said sections,

said second scanning direction being different than said first scanning direction.

- 13. The method of claim 12, wherein said desired geometrical properties include having image edges parallel to a gripper line of a printing system.
- 14. The method of claim 12, wherein said desired geometrical properties include having image edges parallel to a given line orientation.
- 15. The method of claim 12 further comprises printing in a duplex mode.
- 16. The method of claim 15, wherein images printed on both sides of a sheet in said duplex mode are imaged at different resolutions.
- 17. The method of claim 15, wherein said printing uses a different number of active marking elements for each side of a sheet.
- 18. An imaging system comprising:

a plurality of imaging beams; and

means for supplying each of said imaging beams with a respective data sequence comprising sections of successive input lines of a digital image along a first scanning direction; wherein the size of said sections is determined by a variable resolution along a second scanning direction;

said second scanning direction being different than said first scanning direction.

- 19. The system according to claim 18, further comprising means for altering the data sequence of at least one active imaging beam when the number of active imaging beams is varied.
- 20. A method of exposing an image comprising:

scanning successive exposure lines of said image along a first scanning direction; and

varying a resolution of each exposure line along a second scanning direction;

said first scanning direction differing from said second scanning direction.

21. A method according to claim 20, wherein said first scanning direction defines a horizontal exposure of said image and said second scanning direction defines a vertical exposure of said image.